

# CITY OF LONG BEACH STANDARD PLANS TABLE OF CONTENTS

The standard plans not otherwise designated refer to the plans found in this book. The standard plans designated by GB and CT refer to Greenbook and Caltrans standard plans, respectively, and are incorporated by reference.

Number	Title
	<b>GENERAL ROAD WORK</b>
(101 to 104)	<i>Not Used</i>
105	Driveways
(106)	<i>Not Used</i>
107	Local Street, Service Road, and Alley Typical Cross Sections
(108 to 111)	<i>Not Used</i>
112	Bus Pull-out Bay
113	Bus Stop Street Pad
114	Asphalt Concrete Cold Milling Details
115	PCC Pavement Cold Milling Details
116	Curb and Gutter, Curb and Sidewalk, or Driveway Replacement or Construction
117	Curb, Gutter, and Sidewalk Replacement or Construction with Root Barrier at Existing Tree Locations
118	Turnaround for Residential Cul-de-sac Streets
119	Turnaround for Local Other than Residential Cul-de-sac Streets
120	Superelevated Knuckle
121	Header Board for Asphalt Concrete Pavement
(122)	<i>Not Used</i>
123	Guard Pipe Details
(124)	<i>Not Used</i>
125	Formed Fence or Guard Pipe Base
126	Water Gate Box Reconstruction and Adjustment
127	Trench Requirements in Street Right-of-way
128	Permanent Barricade
(129)	<i>Not Used</i>
(130)	<i>Not Used</i>
131	Bicycle Path Barrier Post
132	Standard Symbols
133	Bus Stop Parkway Pad
(134)	<i>Not Used</i>
(135)	<i>Not Used</i>
136	Construction Information Sign
GB-111	Curb Ramp
GB-112	Curb and Sidewalk Joints
GB-120	Curb and Gutter – Barrier
GB-122	Cross and Longitudinal Gutters

Number	Title
GB-123	Cross Gutter at T Intersections
GB-130	Alley Intersections
GB-140	Median Taper
GB-141	Median Flare
GB-150	Curb Drain
GB-151	Parkway Drain
GB-600	Chain Link Fence and Gates
	<b>MONUMENTS AND BENCHMARKS</b>
201	Type A Centerline Intersection Monument
202	Type C Centerline Intersection Monument
203	Type 1 Benchmark
204	Casting Installation for Existing Tie Monuments
	<b>TRAFFIC STRIPING AND PAVEMENT MARKERS</b>
(301 to 306)	<i>Not Used</i>
307	Crosswalk Details
308	Traffic Striping and Arrow Markings for Turn Pockets, Optional Lanes and Through Lanes
309	Pedestrian Markings at Crosswalk, Stop and Stop Bar
310	Pavement Markings at School Crossings
311	Bicycle Striping and Marking
312	Parking Lot Striping, Marking and Signing
313	Overhead-mounted Street Name Sign
314	Fire Hydrant Markers
315	Catch Basin Stencil
316	Parking Meter Post Installation
317	Traffic Sign Installation
318	Street Name Sign Installation
319	Standard Street Name Sign
320	Historic District Customized Street Name Sign
CT-A20A	Pavement Markers and Traffic Lines, Typical Details
CT-A20B	Pavement Markers and Traffic Lines, Typical Details
CT-A20C	Pavement Markers and Traffic Lines, Typical Details
CT-A20D	Pavement Markers and Traffic Lines, Typical Details
CT-A24A	Pavement Markings – Arrows
CT-A24B	Pavement Markings – Arrows
CT-A24C	Pavement Markings – Symbols and Numerals
CT-A24D	Pavement Markings – Words
CT-A24E	Pavement Markings – Words and Crosswalks
	<b>TRAFFIC SIGNALS</b>
CT-ES1A & CT-ES1B	Signal, Lighting, and Electrical Systems – Symbols and Abbreviations
CT-ES3A Thru CT-ES3C	Signal, Lighting, and Electrical Systems – Controller Cabinet Details

Number	Title
CT-ES4A Thru CT-ES4E	Signal, Lighting, and Electrical Systems – Signal Heads and Mountings
CT-ES5A Thru CT-ES5D	Signal, Lighting, and Electrical Systems – Detectors
CT-ES6B	Lighting Standards – Types 15, 21, and 22
CT-ES7B	Signal, Lighting, and Electrical Systems – Type 1 Standards and Equipment Numbering
CT-ES7C	Signal, Lighting, and Electrical Systems – Case 1 Arm Loading, Wind Velocity = 129 km/h, Arm Lengths 4.5 m to 9.1 m (15'-30')
CT-ES7D	Signal, Lighting, and Electrical Systems – Case 2 Arm Loading, Wind Velocity = 129 km/h, Arm Lengths 4.5 m to 9.1 m (15'-30')
CT-ES7E	Signal, Lighting, and Electrical Systems – Case 3 Arm Loading, Wind Velocity = 129 km/h, Arm Lengths 4.5 m to 13.7 m (15'-45')
CT-ES7F	Signal, Lighting, and Electrical Systems – Case 4 Arm Loading, Wind Velocity = 129 km/h, Arm Lengths 7.6 m to 13.7 m (25'-45')
CT-ES7G	Signal, Lighting, and Electrical Systems – Case 5 Arm Loading, Wind Velocity = 129 km/h, Arm Lengths 15.2 m to 16.8 m (50'-55')
CT-ES7O	Sign Illumination – Internally Illuminated Street Name Sign
CT-ES8	Signal, Lighting, and Electrical Systems – Pull Box Details
	<b>IRRIGATION</b>
401	Irrigation Symbols
402	Irrigation Controller Enclosure
(403)	<i>Not Used</i>
404	Electrical Pull Box and Splice
405	Electric Remote Control Valve
406	Manual Control Valve
407	Sprinkler Head Installation – Type A
408	Sprinkler Head Installation – Type B
409	Quick Coupler Control Valve Installation
410	Gate Valve
411	Backflow Preventer Installation
412	Reclaimed Water Filter
413	Flow Sensor
414	Moisture Sensor
415	Typical Controller Diagram
416	Tree Bubbler
417	Pipe Trenching
	<b>LANDSCAPING</b>
501	Tree Single Staking
502	Tree Double Staking
503	Tree Guying
504	Tree Root Barrier
505	Concrete Mowing Strip for Planting Beds

Number      Title

506	Mower Access Curb Depression
	<b>STORM DRAIN</b>
(601 to 615)	<i>Not Used</i>
616	Manhole Frame and Cover
(617 to 633)	<i>Not Used</i>
634	Trench Width and Bedding Requirements
635	Pipe Support Across Trenches
GB-300	Curb Opening Catch Basin
GB-301	Curb Opening Catch Basin with Gratings and Debris Skimmer
GB-302	Curb Opening Catch Basin with Gratings
GB-303	Curbside Grating Catch Basin
GB-304	Grating Catch Basin
GB-305	Grating Catch Basin
GB-307	Curb Opening Catch Basin with Manhole in Street
GB-308	Monolithic Catch Basin Connection
GB-309	Catch Basin Reinforcement
GB-310	Catch Basin Face Plate Assembly and Protection Bar
GB-311	Frame and Grating for Catch Basin
GB-312	Catch Basin Manhole Frame and Cover
GB-313	Local Depressions at Catch Basins
GB-314	Modifications for Side Opening Catch Basins
GB-320	Manhole – Pipe To Pipe (Main Line I.D. 900 mm (36”) or Larger)
GB-321	Manhole – Pipe To Pipe (One or Both Main Line I.D.s 825 mm (33”) or Smaller)
GB-322	Manhole – Pipe To Pipe (Large Side Inlet)
GB-331	Junction Structure – Pipe To Pipe (Inlet I.D. 675 mm or Greater, or O.D. Greater Than Half of Main Line O.D.)
GB-332	Junction Structure – Pipe To Pipe (Inlet I.D. 600 mm (24”) or Smaller, and O.D. Half of Main Line O.D. or Less)
GB-333	Junction Structure – Pipe To RCB
GB-334	Junction Structure – Pipe To RCB (Inlet I.D. 750 mm (30”) or Less
GB-335	Pipe Connections to Existing Storm Drains
GB-340	Transition Structure – Pipe To Pipe
GB-341	Transition Structure – Single RCB To Single RCB
GB-342	Transition Structure – RCB To Pipe
GB-380	Concrete Collar for RCP – 300 mm (12”) Through 1800 mm (72”)
GB-635	Steel Step
GB-636	Polypropylene Plastic Step
	<b>STREET LIGHTING</b>
701	Concrete Light Standard Type A & B
702	Concrete Light Standard Type C & D
703	Concrete Light Standard Type F
704	Concrete Light Standard Type G
705	Concrete Light Standard Type H
706	Mast Arms and Mounting Heights

Number	Title
707	Typical Foundation Details
708	Pull Box and Conduit Details
709	Pull Box Street Light Conduit and Conductor Details
710	Feed Point and Electrical Service Control Cabinet
711	Power Pole Service Connection
712	Conductor Splicing Details
713	Fuseholder Details
714	Water Main Encasement Details
(715)	<i>Not Used</i>
716	General Notes
	<b><i>WATERFRONT</i></b>
801	Naples Island Bulkhead Handrail
802	Pier and Float Layout
803	Pier Installation
804	Optional Support Systems for Narrow Piers
805	Brow
806	Precast Piles
807	Float Access Platform
808	Pipe Moorings and Davits
809	Welded Steel Ladder
	<b><i>AIRFIELD</i></b>
901	Airfield Grounding Rod